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[1 Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

 November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

 Full text available: [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

[2 I_{DDX}-based test methods: A survey](#)

Sagar S. Sabade, Duncan M. Walker

 April 2004 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 9 Issue 2

 Full text available: [pdf\(1.83 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Supply current measurement-based test is a valuable defect-based test method for semiconductor chips. Both static leakage current (I_{DDQ}) and transient current (I_{DDT}) based tests have the capability of detecting unique defects that improve the fault detection capacity of a test suite. Collectively these test methods are known as I_{DDX} tests. However, due to advances in the semiconductor manufacturing process, the future of these test methods is uncertain. This paper ...

Keywords: I_{DDQ} , I_{DDT} test, VLSI testing, test

[3 A unified framework for model-based clustering](#)

Shi Zhong, Joydeep Ghosh

 December 2003 **The Journal of Machine Learning Research**, Volume 4

Full text available:  pdf(851.48 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Model-based clustering techniques have been widely used and have shown promising results in many applications involving complex data. This paper presents a unified framework for probabilistic model-based clustering based on a bipartite graph view of data and models that highlights the commonalities and differences among existing model-based clustering algorithms. In this view, clusters are represented as probabilistic models in a model space that is conceptually separate from the data space. For ...

4 IS '97: model curriculum and guidelines for undergraduate degree programs in information systems

Gordon B. Davis, John T. Gorgone, J. Daniel Couger, David L. Feinstein, Herbert E. Longenecker

December 1997 **ACM SIGMIS Database , Guidelines for undergraduate degree programs on Model curriculum and guidelines for undergraduate degree programs in information systems**, Volume 28 Issue 1

Full text available:  pdf(7.24 MB) Additional Information: [full citation](#), [citations](#)



5 XML query processing I: Evaluating probabilistic queries over imprecise data

Reynold Cheng, Dmitri V. Kalashnikov, Sunil Prabhakar

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data**

Full text available:  pdf(296.12 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Many applications employ sensors for monitoring entities such as temperature and wind speed. A centralized database tracks these entities to enable query processing. Due to continuous changes in these values and limited resources (e.g., network bandwidth and battery power), it is often infeasible to store the exact values at all times. A similar situation exists for moving object environments that track the constantly changing locations of objects. In this environment, it is possible for databases ...

6 Physical world applications of search algorithms for students

R. Stephen Danelly, Carl W. Steidley, Mario A. Garcia, Sreevani Pelala

April 2003 **Journal of Computing Sciences in Colleges**, Volume 18 Issue 4

Full text available:  pdf(131.06 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



Frequently in the Computer Science curriculum we introduce topics in an abstract fashion in which the abstraction seems perfectly straightforward as well as easily implementable to students. Such is the topic of search. Generally, the topic of search is introduced to students as early as the data structures course where the student is introduced to various algorithms for the search of tree structures. In this light students understand and are able to implement search as an abstract method of inf ...

...

7 Modeling and requirements: Reasoning about partial goal satisfaction for requirements and design engineering

Emmanuel Letier, Axel van Lamsweerde

October 2004 **Proceedings of the 12th ACM SIGSOFT twelfth international symposium on Foundations of software engineering**

Full text available: [pdf\(115.02 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Exploring alternative options is at the heart of the requirements and design processes. Different alternatives contribute to different degrees of achievement of non-functional goals about system safety, security, performance, usability, and so forth. Such goals in general cannot be satisfied in an absolute, clear-cut sense. Various qualitative and quantitative frameworks have been proposed to support the assessment of alternatives for design decision making. In general they lead to limited co ...

Keywords: goal-oriented requirements engineering, non-functional requirements, partial satisfaction of requirements, probabilistic requirements modeling, reasoning about design alternatives

8 An experimental evaluation of computer graphics imagery

Gary W. Meyer, Holly E. Rushmeier, Michael F. Cohen, Donald P. Greenberg, Kenneth E. Torrance

January 1986 **ACM Transactions on Graphics (TOG)**, Volume 5 Issue 1

Full text available: [pdf\(3.57 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Accurate simulation of light propagation within an environment and perceptually based imaging techniques are necessary for the creation of realistic images. A physical experiment that verifies the simulation of reflected light intensities for diffuse environments was conducted. Measurements of radiant energy flux densities are compared with predictions using the radiosity method for those physical environments. By using color science procedures the results of the light model simulation are ...

9 P6: Document-based inter-organizational information exchange

Reinhard Riedl

October 2001 **Proceedings of the 19th annual international conference on Computer documentation**

Full text available: [pdf\(217.62 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we present our research work on document services for interstate e-government carried out in the FASME project. First, we depict the background for our research and we describe its basic challenges. Then we discuss the required services out of the perspective of inter-organizational document services and documentation issues. From the evaluations of our prototypical implementation with user groups, we may conclude that interstate e-government services are feasible and that life w ...

Keywords: e-government, inter-organizational work-flows

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1 Fuzzy rules for automated sensor self-validation and confidence measure

PhaniShankar, C.V.; Orth, S.; Frolik, J.; Abdelrahman, M.;
American Control Conference, 2000. Proceedings of the 2000 , Volume: 4 , 28-30 June 2000
Pages:2912 - 2916 vol.4

[\[Abstract\]](#) [\[PDF Full-Text \(288 KB\)\]](#) **IEEE CNF**

2 Design and testing of a fuzzy logic based seeding depth control system

Tessier, T.; Kinsner, W.;
WESCANEX 97: Communications, Power and Computing. Conference Proceedings., IEEE , 22-23 May 1997
Pages:263 - 269

[\[Abstract\]](#) [\[PDF Full-Text \(684 KB\)\]](#) **IEEE CNF**

3 Implementation of sensor selection and fusion using fuzzy logic

Lee, M.F.R.; Stanley, K.; Wu, Q.M.J.;
IFSA World Congress and 20th NAFIPS International Conference, 2001. Joint 9th , Volume: 1 , 25-28 July 2001
Pages:328 - 333 vol.1

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